

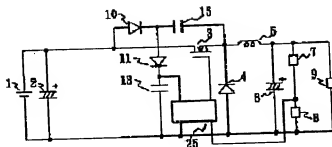
## SWITCHING POWER UNIT

Publication number:	JP10023749/
Publication date:	1998-01-23
Inventor:	HENMI TOKUYUKI
Applicant:	FUJI ELECTRIC CO LTD
Classification:	
- international:	H02M3/155; H02M3/04; (IPC1-7): H02M3/155
- european:	
Application number:	JP19960173135 19960703
Priority number(s):	JP19960173135 19960703

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### Abstract of JP10023749

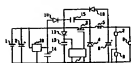
**PROBLEM TO BE SOLVED:** To stabilize the boosted voltage from a switching power unit and the operation of a control system, by rectifying the boosted voltage by connecting diodes and capacitors in the output section of a charge pump circuit. **SOLUTION:** The turn-on/off duty ratio of a switching transistor (TR) 3 is set at <100%. When a switching power unit is started, a voltage is applied to a control section 25 from an input power source 1 through diodes 10 and 11 and a circuit is operated. As a result, the TR 3 is turned on. The source voltage of the TR 3 is boosted and the cathode-side voltage of the diode 10 is boosted. When the TR 3 is turned off, a diode 4 is turned on and the source of the TR 3 is connected to a 0 voltage. As a result, the diode 10 is turned on and charges a capacitor 15 and the cathodeside voltage of the diode 10 becomes nearly equal to the input voltage. When the cathode-side voltage of the diode 10 is rectified by means of the diode 11, a capacitor 13 is stabilized at a voltage which is about twice as high as the input voltage. Thus a switching power unit can make stable boosting operations.



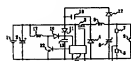
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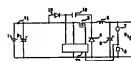
【圖3】



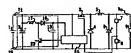
【圖5】



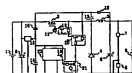
【圖7】



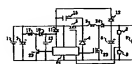
【圖8】



【圖4】



【圖6】



【圖9】

